

I claim:

1. A disk-anchoring device of an optical disk device, comprising:
 - a substrate;
 - 5 a clamper for fixing a disk, further having a magnetic element;
 - a clamper frame for holding the clamper, mounted on the substrate and further having thereof a first protruding portion;
 - 10 a clamper holder for fixing the clamper frame, mounted on the substrate;
 - a frame clamper for attracting the clamper, mounted on the substrate;
 - 15 a rack slider, mounted on the substrate and having thereof an inclined portion and a second protruding portion; and
 - an elastic element, movably hooked to the substrate;
- wherein the second protrusion portion of the rack slider is used to abut the first protrusion portion of the clamper frame and the first protrusion portion is scheduled to rest on the inclined portion.
2. The disk-anchoring device as claimed in claim 1, wherein the elastic element is a spring.
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3. The disk-anchoring device as claimed in claim 1, wherein the substrate further comprises a plurality of locking holes for positioning the clamper frame, the clamper holder and the frame clamper.

4. The disk-anchoring device as claimed in claim 1, wherein the substrate further comprises a plurality of guiding pillars for guiding the rack slider while in introducing or ejecting the optical disk.

5 5. The disk-anchoring device as claimed in claim 1, wherein the substrate further comprises a positioning hook for placing the elastic element.

10 6. The disk-anchoring device as claimed in claim 1, wherein the first protrusion portion of the clamper frame slides along the inclined portion of the rack slider after the rack slider begins to move and before the rack slider stops; and, when the rack slider stops, wherein the second protrusion portion of the rack slider abuts the first protrusion portion and pushes the clamper downwardly so that the clamper frame pivots about the clamper holder to the utmost.

15 7. The disk-anchoring device as claimed in claim 1, wherein the clamper holder further comprises an elastic arm and a pressing chunk which is used to depress the clamper holder with resilience provided by the elastic arm.

20 8. The disk-anchoring device as claimed in claim 1, wherein the rack slider further comprises a plurality of guide grooves to be traveled along by the respective guiding pillars of the substrate.

25 9. The disk-anchoring device as claimed in claim 4, wherein the rack slider further comprises a plurality of guide grooves to be traveled along by the respective guiding pillars of the substrate.

10. A disk-anchoring device for using in an optical disk device, comprising:

a substrate;

a clamper for fixing the disk, further having a magnetic element;

5 a clamper frame for holding the clamper, mounted on the substrate and further having thereof a first protruding portion;

a clamper holder for fixing the clamper frame, mounted on the substrate;

10 a frame clamper for adhering the clamper, mounted on the substrate; and

a rack slider, slidably mounted on the substrate and having thereof an inclined portion and a second protruding portion;

15 wherein the second protrusion portion of the rack slider is used to abut the first protrusion portion of the clamper frame and the first protrusion portion is scheduled to rest on the inclined portion.

11. The disk-anchoring device as claimed in claim 10, wherein the substrate further comprises a plurality of locking holes for positioning the clamper frame, the clamper holder and the frame clamper.

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12. The disk-anchoring device as claimed in claim 10, wherein the substrate further comprises a plurality of guiding pillars for guiding the rack slider while in introducing or ejecting the optical disk.

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13. The disk-anchoring device as claimed in claim 10, further comprising an elastic element which is movably hooked to the substrate.

14. The disk-anchoring device as claimed in claim 13, wherein the elastic element is a spring.

5 15. The disk-anchoring device as claimed in claim 10, wherein the substrate further comprises a positioning hook for placing the elastic element.

10 16. The disk-anchoring device as claimed in claim 10, wherein the first protrusion portion of the clamper frame slides along the inclined portion of the rack slider after the rack slider begins to move and before the rack slider stops; and, when the rack slider stops, wherein the second protrusion portion of the rack slider abuts the first protrusion portion and pushes the clamper downwardly so that the clamper frame pivots about the clamper holder to the utmost.

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17. The disk-anchoring device as claimed in claim 10, wherein the clamper holder further comprises an elastic arm and a pressing chunk which is used to depress the clamper holder with resilience provided by the elastic arm.

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18. The disk-anchoring device as claimed in claim 10, wherein the rack slider further comprises a plurality of guide grooves to be traveled along by the respective guiding pillars of the substrate.

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19. The disk-anchoring device as claimed in claim 12, wherein the rack slider further comprises a plurality of guide grooves to be traveled along by the respective guiding pillars of the substrate.